## 3.2.3 Difficult Run Summary

## 3.2.3.1 Difficult Run Watershed

**Description**. Difficult Run Watershed is the largest watershed in Fairfax County, with just over 131 miles of stream assessed. It encompasses most of the northern portion of the County. The watershed is contained entirely within the county boundaries, and drains directly to the Potomac River.

Habitat. The habitat assessment results for Difficult Run Watershed are summarized by stream in Table 3-13. Habitat scores for each reach are depicted in Figure 3-17. Based on a length weighted habitat score of 108 (Table 3-2), Difficult Run Watershed is in the middle to upper range of quality, compared to the rest of the County. Approximately 2 miles of stream were categorized as having "very poor" habitat conditions, 44 miles as "poor," 62 miles as "fair," 21 miles as "good," and 1 mile as "excellent."

**CEM**. On the basis of the CEM evaluations, approximately 73 percent of Difficult Run Watershed is in Evolutionary Stage 3 (Table 3-3). Figure 3-18 summarizes the CEM results for Difficult Run Watershed.

Infrastructure. The infrastructure inventory resulted in 1814 inventory points. The most significant problems were related to three exposed utility lines that were given an impact score over 10 and many obstructions, and erosion points which were each given an impact score of 10. The infrastructure inventory results are summarized in Table 3-14. Figures 3-19, 3-20, 3-21, 3-22, and 3-23 summarize impact scores for the erosion problems; deficient buffers; pipes/ditches; crossings; and dumps, obstructions, and utilities, respectively.

TABLE 3-13
Habitat Assessment Summary for Difficult Run Watershed
Fairfax County Stream Physical Assessment

	Linear Feet (Percent) of Stream										
Stream	Very Poor	Poor	Fair	Good	Excellent	Total					
Angelico Branch	0 (0.00)	2,569 (24.07)	8,103 (75.93)	0 (0.00)	0 (0.00)	10,672					
Bridge Branch	0 (0.00)	0 (0.00)	1,524 (100.00	0 (0.00)	0 (0.00)	1,524					
Captain Hickory Run	0 (0.00)	14,555 (69.77)	4,838 (23.19)	1,468 (7.04)	0 (0.00)	20,861					
Colvin Run	0 (0.00)	7,208 (14.61)	38,812 (78.65)	3,327 (6.74)	0 (0.00)	49,348					
Difficult Run	3,146 (1.93)	83,235 (51.02)	72,095 (44.19)	4,658 (2.86)	0 (0.00)	163,134					
Dog Run	0 (0.00)	7,339 (100.00	0 (0.00)	0 (0.00)	0 (0.00)	7,339					
Little Difficult Run	0 (0.00)	10,043 (18.76)	29,185 (54.51)	14,308 (26.73)	0 (0.00)	53,536					

**TABLE 3-13**Habitat Assessment Summary for Difficult Run Watershed Fairfax County Stream Physical Assessment

	Linear Feet (Percent) of Stream											
Stream	Very Poor	Poor	Fair	Good	Excellent	<b>Total</b> 2,977						
Moonac Creek	0 (0.00)	0 (0.00)	2,977 (100.00	0 (0.00)	0 (0.00)							
Old Courthouse Spring Branch	0 (0.00)	0 (0.00)	338 (2.53)	13,023 (97.47)	0 (0.00)	13,361						
Piney Branch	0 (0.00)	0 (0.00)	23,611 (65.67)	12,342 (34.33)	0 (0.00)	35,953						
Piney Run	3,138 (7.53)	26,583 (63.77)	11,968 (28.71)	0 (0.00)	0 (0.00)	41,689						
Rocky Branch	0 (0.00)	26,699 (58.54)	17,863 (39.17)	, , , ,		45,606						
Rocky Run	0 (0.00)	4,552 (14.69)	10,701 (34.53)	15,734 (50.78)	0 (0.00)	30,987						
Sharpers Run	0 (0.00)	0 (0.00)	8,224 (100.00	0 (0.00)	0 (0.00)	8,224						
Snakeden Branch	2,090 (6.03)	6,388 (18.44)	25,172 (72.68)	984 (2.84)	0 (0.00)	34,634						
South Fork Run	0 (0.00)	0 (0.00)	30,989 (85.96)	5,063 (14.04)	0 (0.00)	36,052						
The Glade	0 (0.00)	3,629 (18.67)	14,190 (73.02)	0 (0.00)	1,616 (8.31)	19,434						
Tributary To Captain Hickory Run	0 (0.00)	11,160 (84.85)	1,992 (15.15)	0 (0.00)	0 (0.00)	13,151						
Tributary To Colvin Run	1,546 (8.04)	8,423 (43.82)	9,252 (48.14)	0 (0.00)	0 (0.00)	19,222						
Tributary To Difficult Run	290 (2.67)	8,503 (78.27)	2,070 (19.05)	0 (0.00)	0 (0.00)	10,863						
Tributary To Dog Run	0 (0.00)	3,979 (100.00	0 (0.00)	0 (0.00)	0 (0.00)	3,979						
Tributary To Piney Branch	0 (0.00)	0 (0.00)	1,954 (100.00	0 (0.00)	0 (0.00)	1,954						
Tributary To Rock Branch	0 (0.00)	1,657 (100.00	0 (0.00)	0 (0.00)	0 (0.00)	1,657						
Wolftrap Creek	0 (0.00)	7,142 (12.17)	9,872 (16.83)	39,532 (67.39)	2,119 (3.61)	58,666						
Watershed Total			325,731 (47.56)	3,735 (0.55)	684,825							

TABLE 3-14 Infrastructure Assessment Summary for Difficult Run Watershed Fairfax County Stream Physical Assessment

Impact																
Score	0	1	2	3	4	5	6	7	8	9	10	12	15	18	20	Total
Deficient Buffers	0	0	14	38	90	165	58	70	31	5	3	N/A	N/A	N/A	N/A	474
Crossings	114	172	148	61	47	25	8	6	2	0	1	N/A	N/A	N/A	N/A	584
Ditches and Pipes	197	65	23	26	17	27	4	5	6	0	6	N/A	N/A	N/A	N/A	376
Erosion	0	0	0	0	5	25	24	47	26	5	12	N/A	N/A	N/A	N/A	144
Head Cut	0	0	0	0	4	0	1	0	0	0	1	N/A	N/A	N/A	N/A	6
Obstruction	12	5	9	27	16	32	15	16	17	10	32	N/A	N/A	N/A	N/A	191
Utility	2	1	4	9	10	3	0	4	0	0	3	1	1	1	0	39
Total	325	243	198	161	189	277	110	148	82	20	58	1	1	1	0	1814













